

GOBI JK ROOF RACK ADAPTOR KIT FOR (AEV) REAR BUMPER INSTALLATION INSTRUCTIONS

The rack must be inspected before each use to make certain attachments are secure, and for evidence of Wear. Misuse of the rack or failure to observe the manufacturer's instructions as to installation, proper Attachment and maintenance will void any warranties that may be implied by law.

TOOLS REQUIRED FOR INSTALLATION:

- 1- 16mm socket and extension**
- 1- 9/16" socket and extension**
- 1- 9/16" Box end wrench**

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Guidelines:

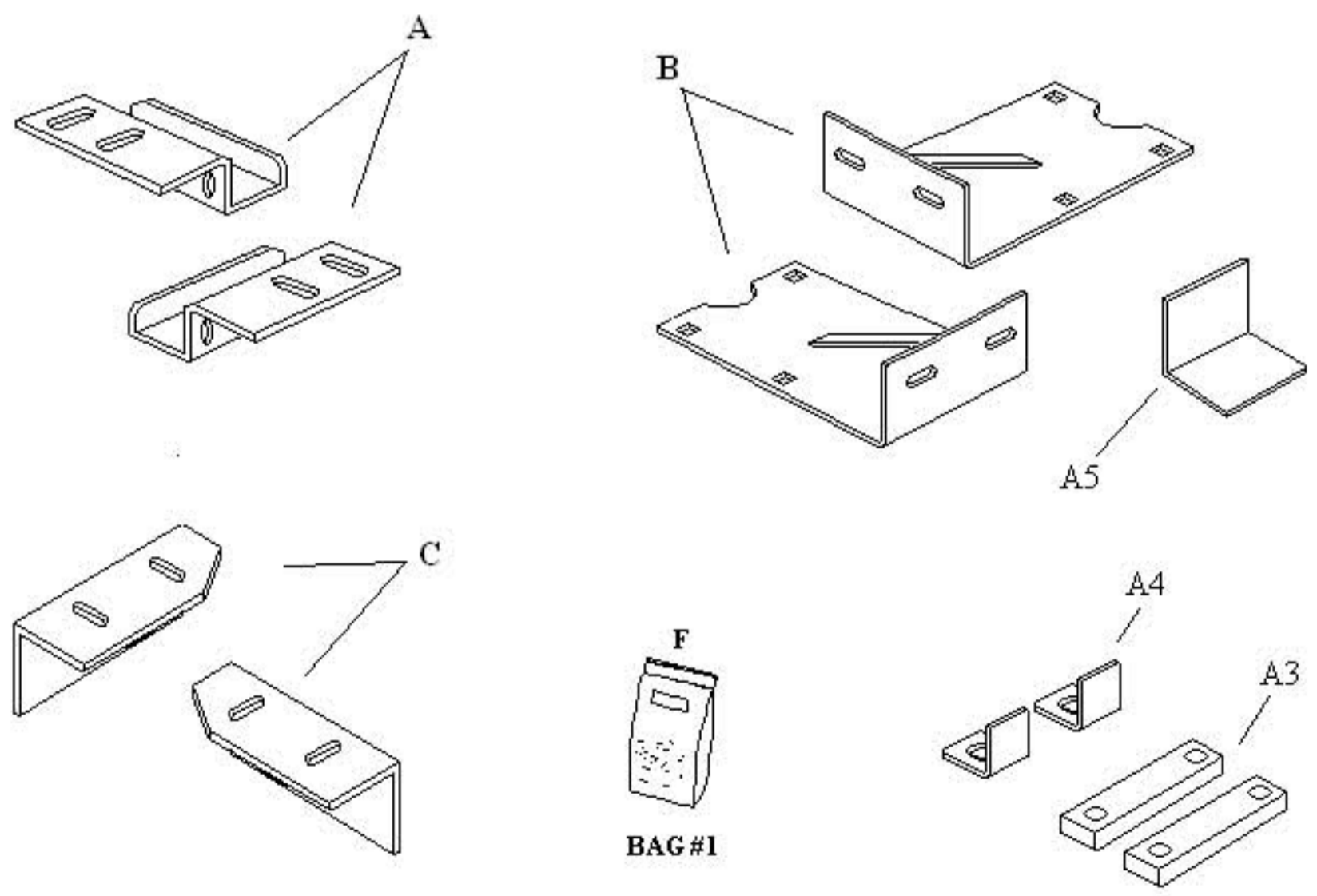
When using Load Carriers and Accessories, the user must understand the precautions. The points listed below will assist you in using the rack /carrier system and will encourage safety.

- For quality fits and safty, use only the recommended rack or accessory. Do not assume an accessory will fit, always check with dealer when obtaining new accessories. Use only approved accessories on load carriers. Using other brands will void your warrenty.
- Make sure all knobs, bolts, screws, straps, and locks are firmly attached, tightened and locked before every trip. Knobs, bolts, screws, straps, and locks must be periodically inspected for signs of wear, corrosion, and fatigue. Check your load at stops during the trip to insure continued fastening security.
- Check local and state laws governing projection of objects beyound the width of a vehicle. **Be aware of the width and height of your cargo since low clearance branches, bridges, and parking garages can affect the load** All cargo will affect the vehicle's driving behavior. Never drive with any lock, know, or rack in an open or unlocked position. All long loads such as, but not limited to sailboards, surfboards, kayaks, canoes, and lumber must be tied down front and rear to the bumpers or tow hooks, of the vehicle.
- Remove your rack accessories when they are not in use, before intering car washes, prior to taking in your vehicle for service, and whenever clearance may be an issue.
- All locks must be turned and moved periodically to insure smooth operation. Use graphite or similar dry lubricant to help this. Locks are designed to deter vandalism and theft. Remove valuable gear if your vehicle is unattended for an extended period. Place at least one key in the glove compartment.
- For safety to your vehicle and rack system, obey all posted speed limits and traffic cautions. Adapt your speed to the conditions of the road and the load being carried.
- Do not use load carriers and accessories for purposes other than those for which they were designed. Do not exceed their carrying capacity.
- Consult with your dealer if you have any questions regarding the operations and limits of this product. Review all instructions carefully.

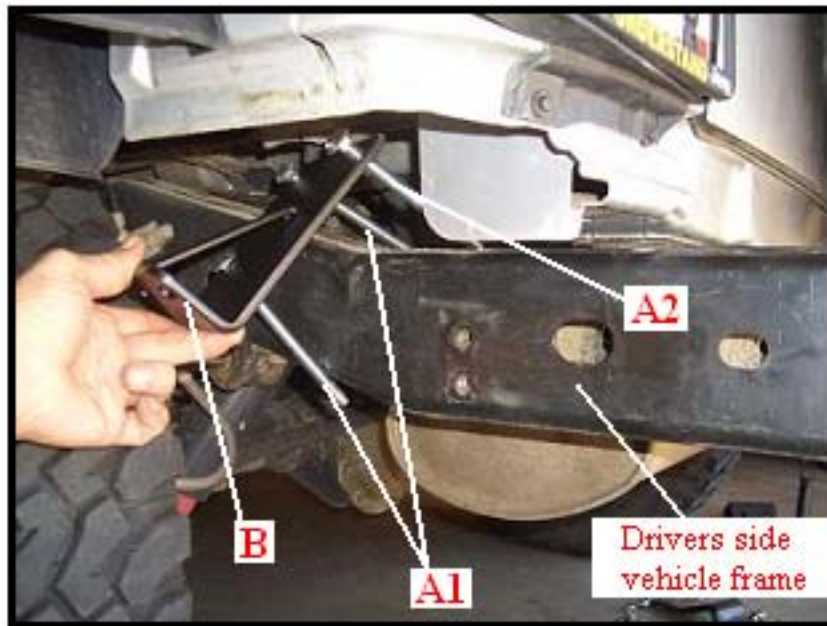
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Included in kit

Letter	Description	Location	Quantity
A	GOBI SUPPORT TOWER ADAPTOR PLATES (MAIN)	Hardware Box	
B	GOBI SUPPORT TOWER FRAME EXTENSIONS	Hardware Box	
C	GOBI SUPPORT TOWER CONNECTOR PLATES	Hardware Box	
F	<p style="text-align: center;">KIT MOUNTING HARDWARE</p> <p><u>CONTENTS:</u></p> <ul style="list-style-type: none"> 22- 3/8 Flat washer hard yellow zinc 4 3/8-16 x 1-1/8" Hex screw hard yellow zinc 4 3/8-16 x 5-1/2" Carriage bolt zinc 2- 3/8-16 x 5" Carriage bolt zinc 8- 3/8-16 x 1" Carriage bolt zinc 14 3/8 Nylock nut hard yellow zinc 2- Black steel powder coated clamp plates (A3) 2- Black steel powder coated angle bracket (A4) 1- Aluminum 90 degree angle tool (A5) 	<p>BAG #1 Hardware Box</p>	1

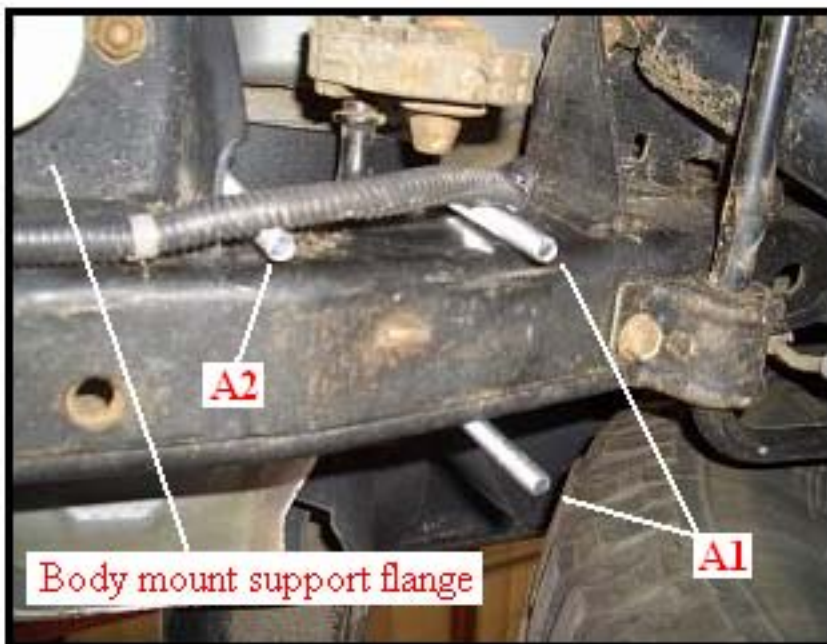


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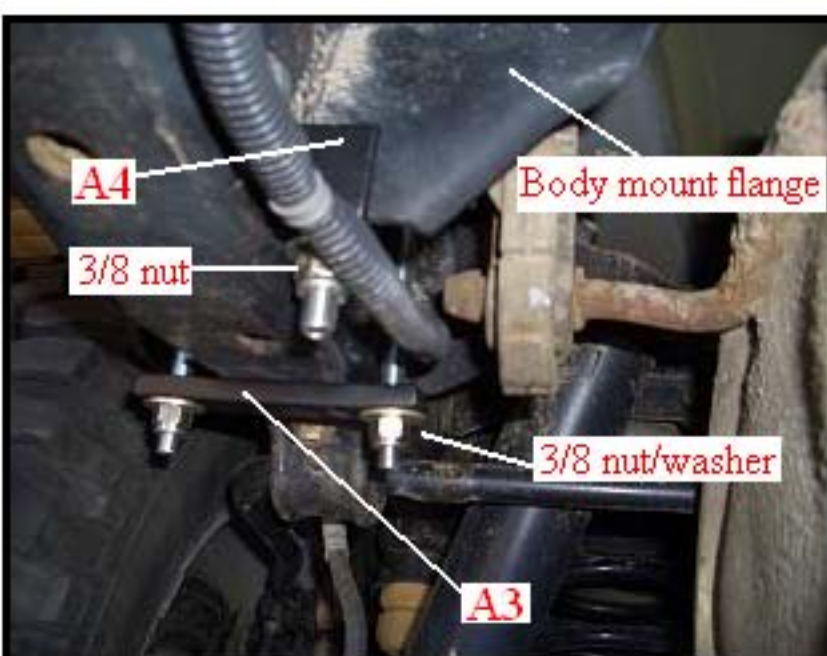
**Fig. 1**

Prior to install read all instructions carefully then remove the Factory rear bumper completely.

Remove from your hardware kit "Frame Extension Plate" (B) Drivers side marked with a stamp "D" or sticker. Install two 3/8" x 5-1/2" long carriage bolts (A1) into frame extension plate (B) as shown to the left. Then install one 3/8" x 5" long carriage bolt (A2) into the third hole as shown. Slip entire assembly over Driver side vehicle frame.

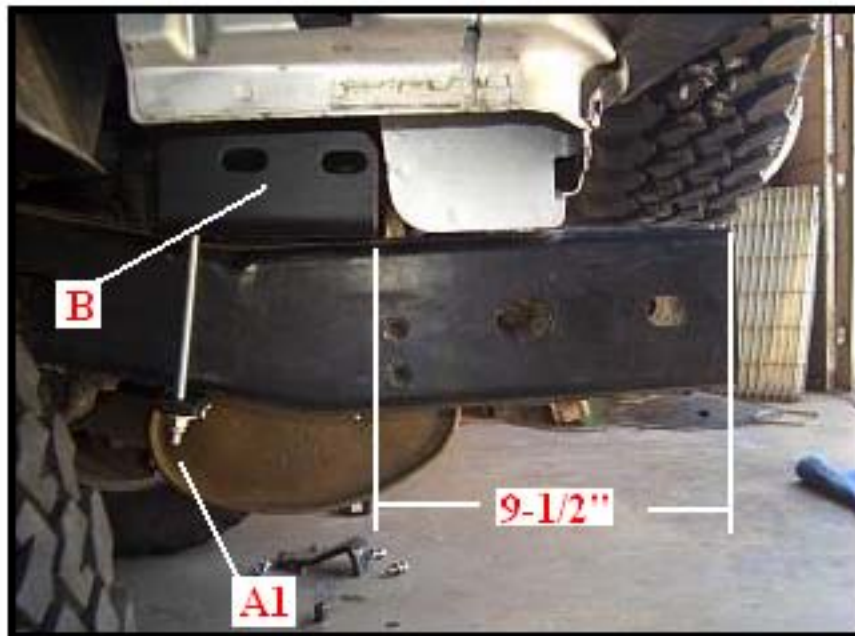
**Fig. 2**

As shown in Fig. 2 make certain carriage bolts (A1) and (A2) fit close to vehicle frame so as not to pinch electrical wires during installation.

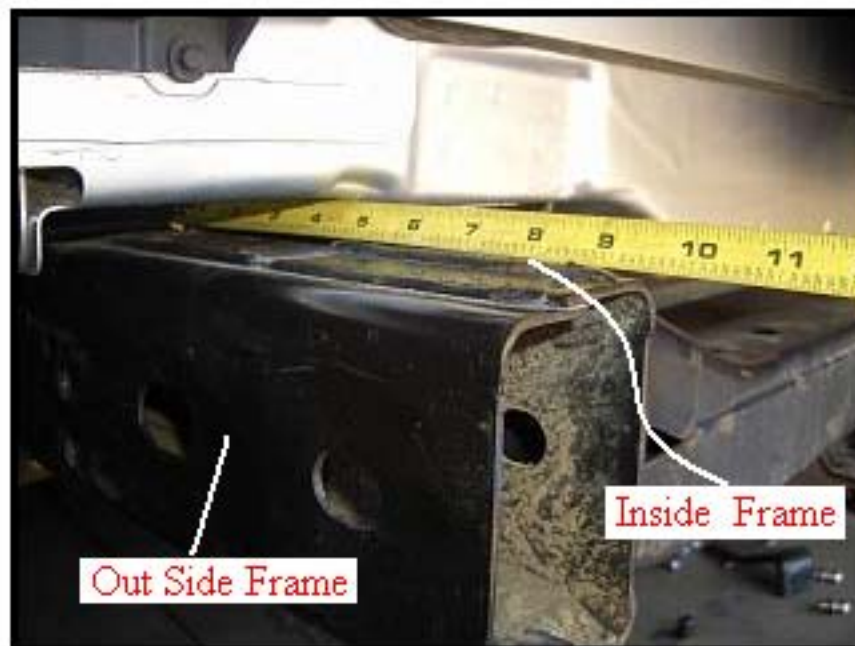
**Fig. 3**

Remove from your hardware kit one (A3) clamp plate and install as shown using two 3/8 flat washers and 3/8 nylock nuts, do not fully tighten at this time. Remove one (A4) angle bracket from your hardware kit and install as shown hooking the bracket under the Body Mount flange and using one 3/8 nylock nut to secure in place. Do not fully tighten at this time.

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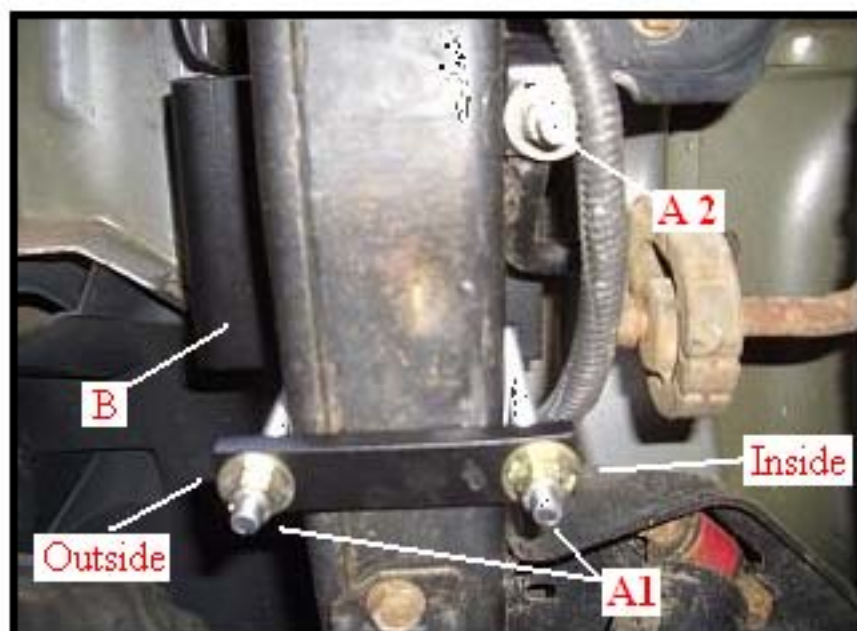
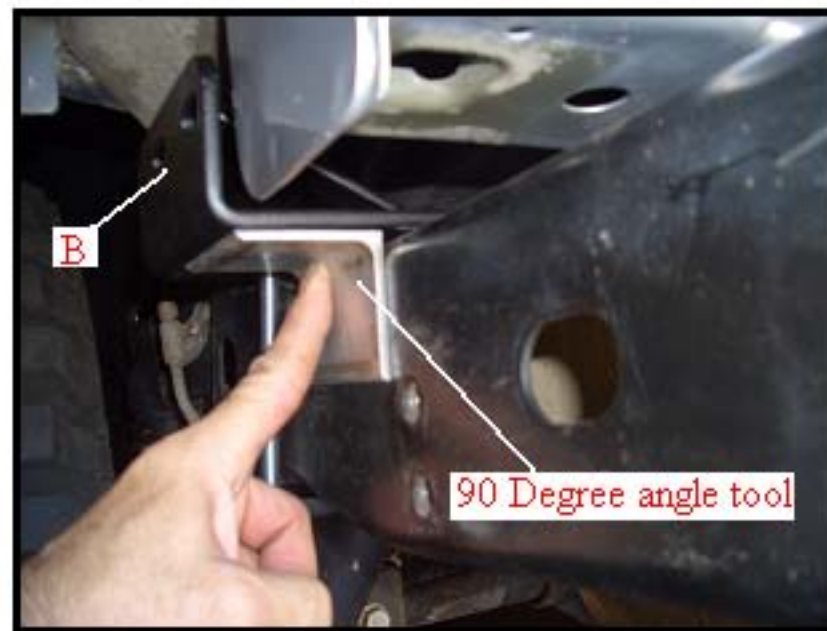
**Fig. 4**

Position Frame extension plate (B) so that it sits at 9-1/2" from the end of the vehicle body frame as shown.

**Fig. 5**

Measure from both the inside and outside of the body frame to the edge of extension plate (B) as shown then snug down all three 3/8 nuts. Do not fully tighten at this time.

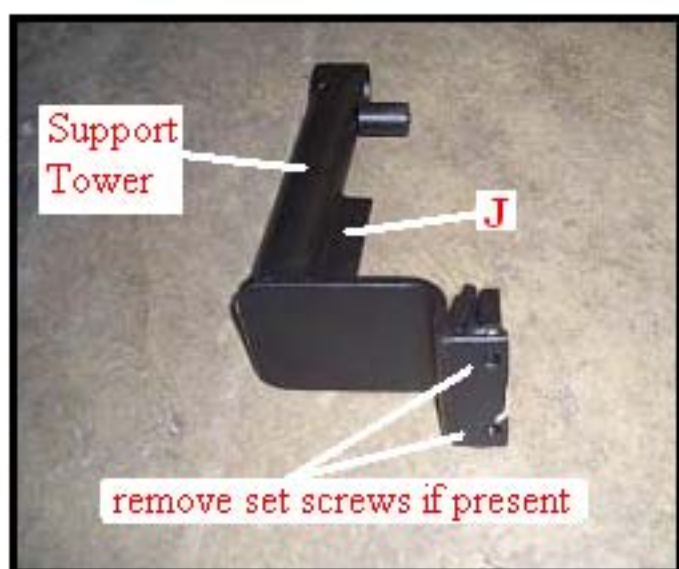
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Fig. 6**Fig. 7**

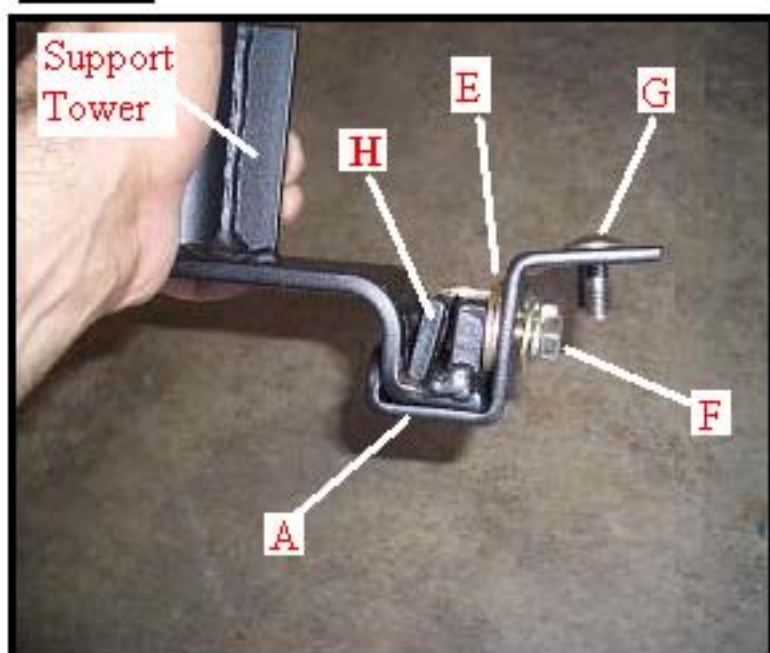
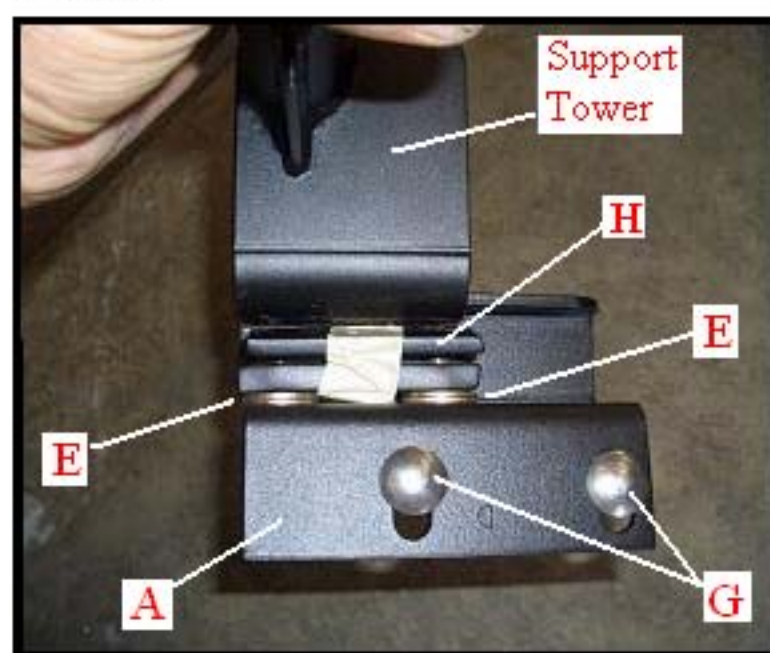
Tighten both nuts (A1) starting with the inside nut first switch back and forth between the inside and outside nuts. While holding the 90 degree aluminum tool in place as shown in Fig. 7 above fully tighten all three nuts. Always check during the tightening process back on page 5 Fig. 4 that the 9-1/2" distance is maintained.

Note: When tightening the frame extension nuts the inside frame nut (A1) will lift the frame extension and tightening the outside frame nut (A1) will lower the frame extension plate (A) or visa versa. Using this technique completely tighten all three nuts and maintain the 90 degree frame extension position using the aluminum 90 degree tool to confirm. Apply the same procedure to the Passenger side.

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**Fig. 7**

If you are installing a GOBI (AEV) adaptor kit to a previously installed GOBI JK roof rack you will have to remove the two 5/16 set screws located at the bottom of each support tower. If a new GOBI JK roof rack is to be installed make certain the support Towers do not have set screws attached to the bottom of each tower if set screws are present remove prior to installation. Both Towers must appear as shown in Fig. 7.

Fig. 8**Fig. 9**

Remove from your hardware kit the driver side Gobi (AEV) adaptor plate (A) determined by a stamp "D" or sticker. If you are installing the Gobi (AEV) adaptor plate (A) onto a previously installed Gobi JK roof rack support tower you will need to remove and discard both the original 3/8 x 1" yellow zinc hex head screws. Keep the 3/8 flat washers and lock washers for later use.

Remove from Bag #1 of your kit four 3/8" yellow zinc flat washers (E), two 3/8 x 1-1/8" hex head screws (F) and two 3/8 x 1" stainless steel carriage bolts (G). As shown in Fig. 8 and Fig. 9 slip two 3/8" flat washers (E) between adaptor plate (A) and Gobi support tower then thread the new 1-1/8" yellow zinc hex screw (F) into the original lock washer and flat washer then through adaptor plate (A) through the two 3/8" yellow zinc flat washers (E) and finally into support tower. Be sure to keep pinch plate (H) in its present position for later use.

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Inside body panel and lower body lip

Fig. 10

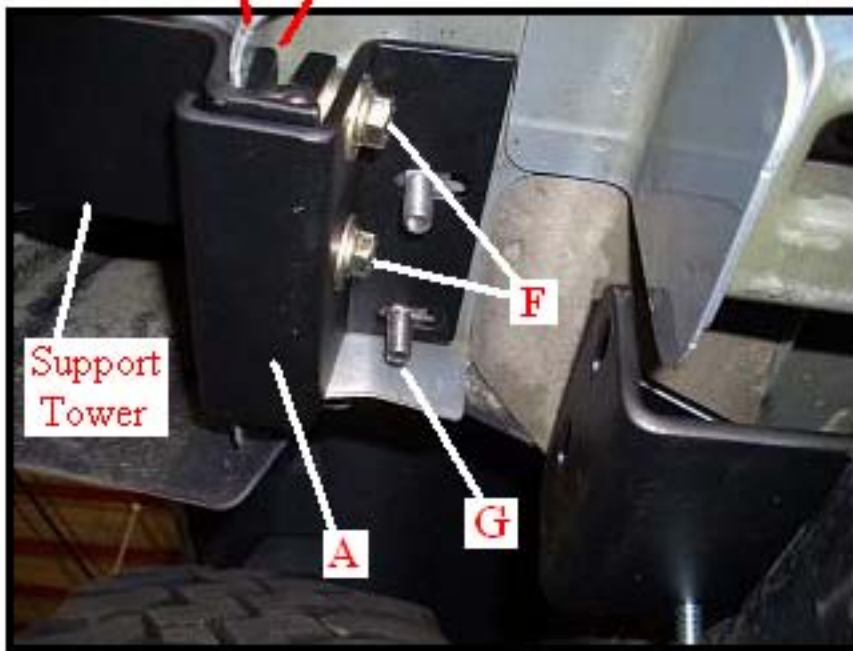
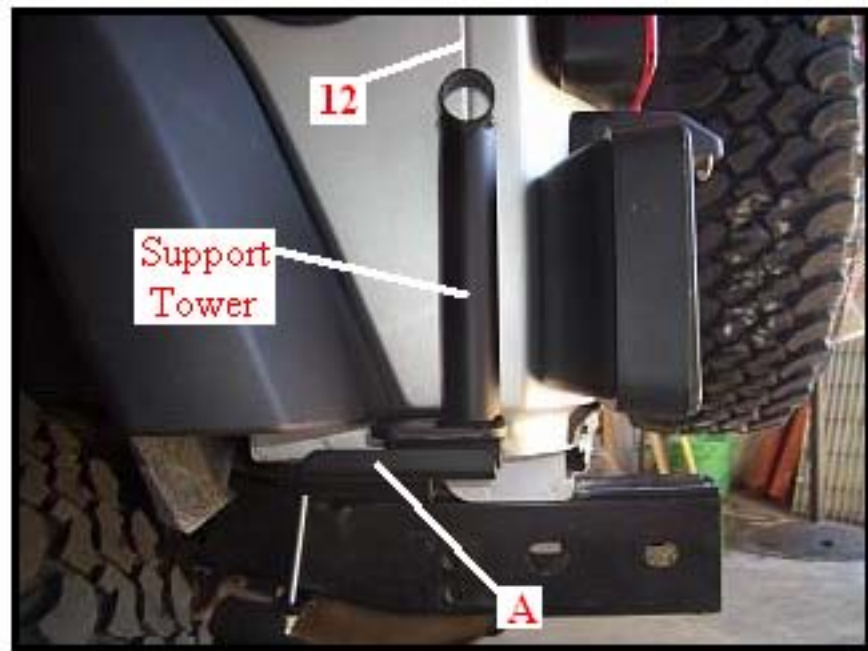
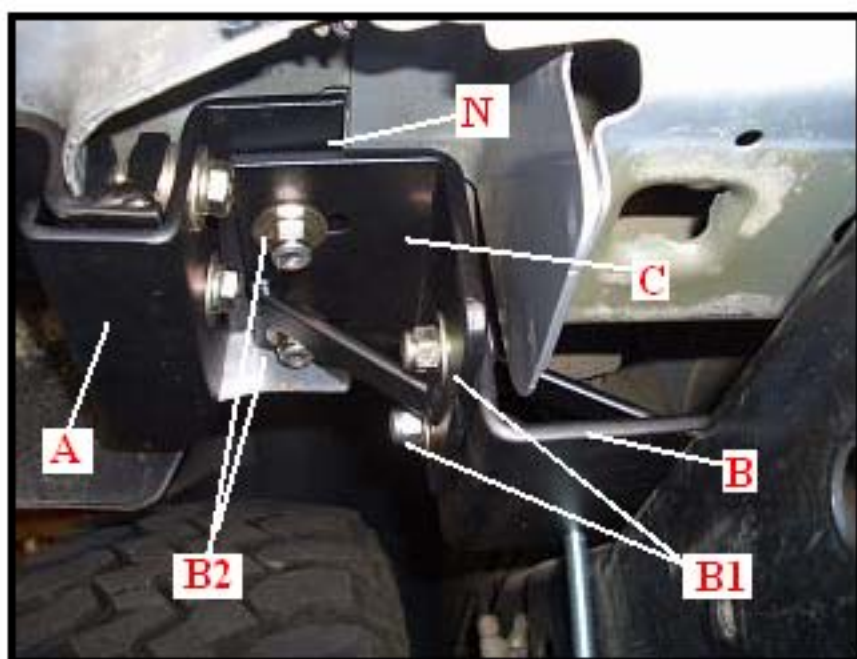
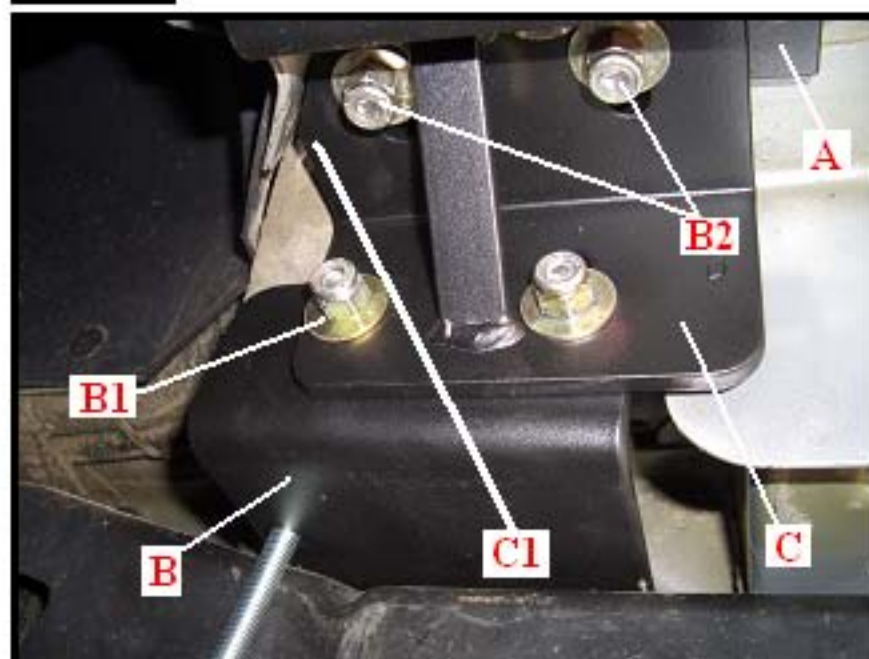


Fig. 11



Make certain carriage bolts (G) are fitted in the adaptor plate (A) as shown in Fig. 10 prior to installation. Make certain pinch plate (H) is installed between screws (F) and vehicle body inside panel lower lip as shown in Fig. 10. Using the top of the Support Tower Tube as a target center line cross hairs as shown in Fig. 11 page 8 and the Support Tower flange (J) as a guide as shown on page 7 Fig. 7 make certain the Support Tower is vertically in line with body seam (12) as shown in Fig. 11 then fully tighten both hex nuts (F) using a 9/16 wrench while firmly holding the support tower and adaptor plate (A) up against the underside body lip of the vehicle as high as possible. Follow the same procedure as described in the Gobi JK Recon roof rack installation instructions page 11 step 7. Install the Passenger side using the same procedure.

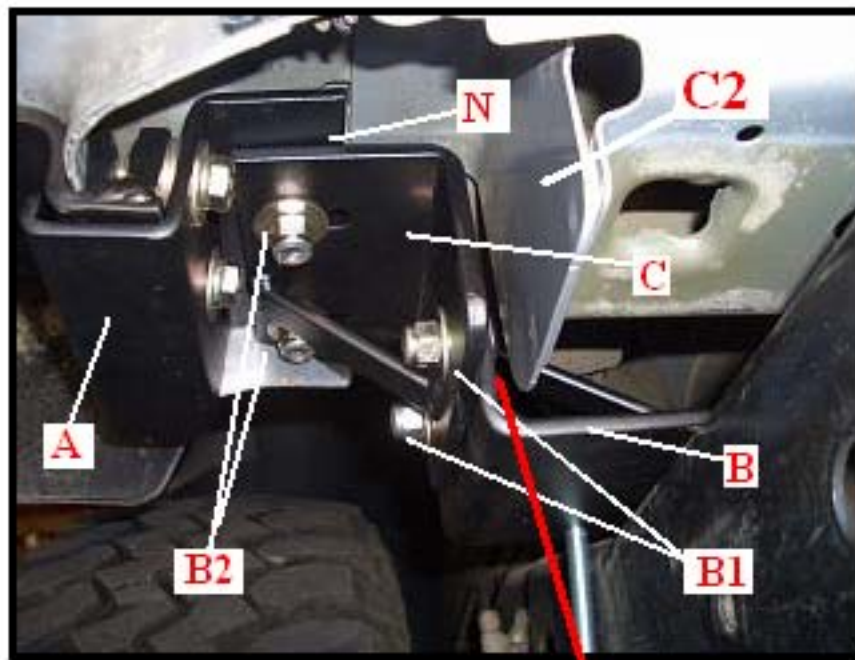
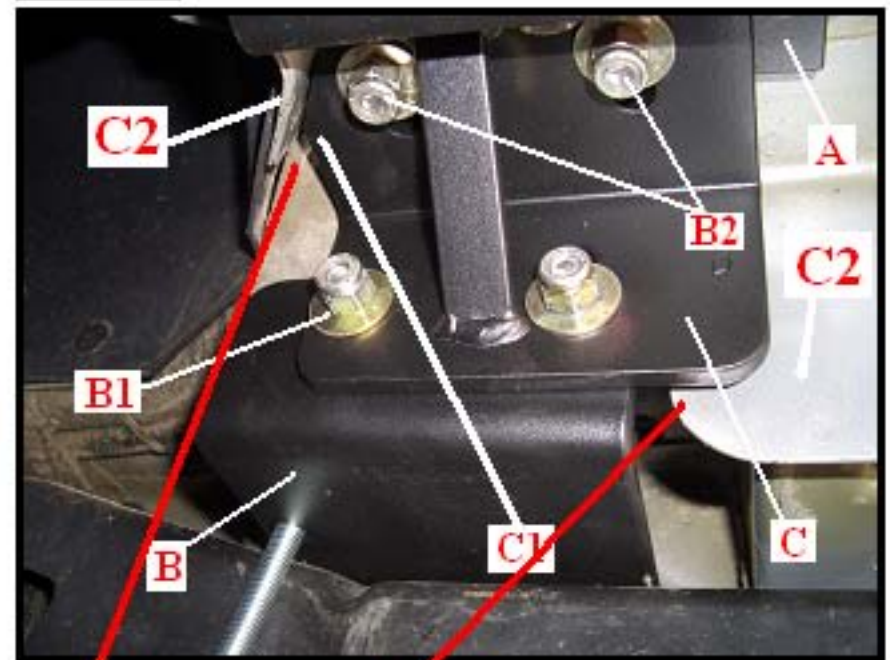
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Fig. 12**Fig. 13**

Refer to Fig. 12 and remove the Driver side connector plate "C" from your hardware kit marked by a stamp "D" or sticker. Position connector plate (C) with the angled section (C1) to the top and towards the front of the vehicle as shown in Fig. 13. Use two 3/8" nylock nuts and two 3/8" flat washers (B2) located in your hardware kit to secure connector plate (C) to Support Tower plate (A) as shown in Fig. 12 and Fig. 13, finger tighten only at this time. Use two 3/8 x 1" stainless steel carriage bolts and two 3/8" flat washers and two 3/8" nylock nuts (B1) to secure connector plate (C) to frame extension (B) as shown in Fig. 12 and Fig. 13, snug down only allowing for some movement at this time. Slide connector plate (C) up until it makes contact with adaptor plate (A) a small gap (N) will appear between connector plate (C) and adaptor plate (A) as shown in Fig. 12 this is normal and will provide a tight fit when assembly is fully tightened. Fully tighten and secure screws (B1) then continue to fully tighten and secure screws (B2). After you have fully tightened all screws check to make certain that the Support Tower is still in line with vehicle body seam (12) as shown in Fig. 11 page 8. If the Support Tower has moved substantially off line with body seam (12) as shown in Fig. 11 page 8 then connector plate (C) was not fully level with adaptor plate (A) when tightened. To realign Support Tower to body seam (12) remove connector plate (C) and loosen Support tower screws (F) and realign as shown in Fig. 11 page 8. Reinstall connector plate (C) and make certain connector plate (C) is in full contact with adaptor plate (A) as described above and fully tighten all parts.

Apply the same procedure to the passenger side. Installation of the GOBI (AEV) adaptor kit is now completed. Installation of the AEV rear bumper can now be performed as normal.

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Fig. 12**Fig. 13**

IF DURING ASSEMBLY BRACKET "C" AND BODY PANEL AREAS "C2" COME IN CONTACT, BODY NOISE MAY OCCUR. TO BE SAFE MAKE CERTAIN A GAP OF AT LEAST 1/8" IS LEFT BETWEEN BRACKET "C" AND VEHICLE BODY PANELS.

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FULLY INSTALLED GOBI JEEP JK ROOF RACK SUPPORT SYSTEM WITH (AEV) REAR BUMPER

